



### Reliable

Precise measurement results even in extreme environments

### Cost effective

Easy mounting reduces installation and maintenance costs

### User friendly

Simple calibration even during running process

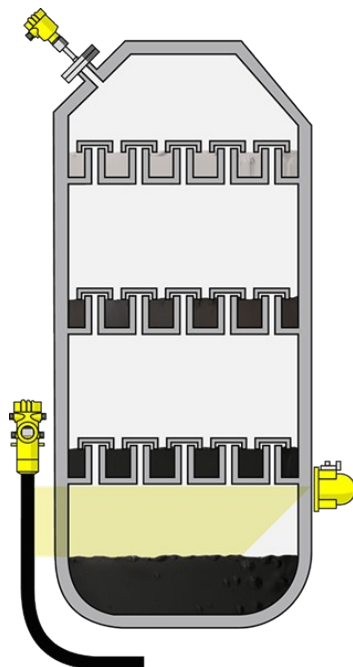
## Distillation column

### Level and pressure measurement in the distillation unit

The heavy, highly viscous process material and extreme temperature are located in the bottom part of the distillation. For level control of residual feeds, a non-contact measurement is essential for reliability.

Monitoring head space pressure at the upper end of refinery columns is important to ensure that the process is operating under ideal conditions.

[More details](#)



### FIBERTRAC 31

Radiation-based sensor for continuous level measurement

- Non-contact measurement principle allows safe and reliable level measurement
- Lightweight design reduces mounting hardware and structural requirements
- Easy proof test verifies operation without costly process downtime

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### VEGABAR 81

Measurement of head pressure with pressure transmitter in the distillation column

- Reliable head pressure measurement, even with vacuum or overpressure
- Measurement result unaffected by temperature variations during the start-up and shutdown of the column
- Durable pressure transmitter can withstand temperatures of up to 400 °C

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PRO

**FIBERTRAC 31**  
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**Measuring range - Distance**  
 7 m

**Process temperature**  
 -

**Process pressure**  
 -

**Accuracy**  
 $\pm 0.5 \%$ 
**Density**  
 Density

**Materials, wetted parts**  
 No wetted material

**Threaded connection**  
 Mounting from outside via supplied mounting brackets

**Seal material**  
 no media contact

**Housing material**  
 Aluminium  
 Stainless steel (precision casting)

**Protection rating**  
 IP66/IP67

PRO

**VEGABAR 81**  
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**Measuring range - Distance**  
 -

**Measuring range - Pressure**  
 -1 ... 1000 bar

**Process temperature**  
 -90 ... 400 °C

**Process pressure**  
 -1 ... 1000 bar

**Accuracy**  
 0.2 %  
 0.1 %

**Materials, wetted parts**  
 Alloy C22 (2.4602)  
 Alloy 400 (2.4360)  
 Tantalum  
 Alloy C276 (2.4819)  
 Duplex (1.4462)  
 Titanium Grade 2 (3.7035)  
 1.4435  
 316/316L  
 Titanium Grade 7 (3.7235)

**Threaded connection**  
 $\geq G\frac{1}{2}$ ,  $\geq \frac{1}{2}$  NPT

**Flange connection**  
 $\geq DN25$ ,  $\geq 1"$ 
**Hygienic fittings**  
 Clamp  $\geq 1"$  - DIN32676, ISO2852  
 Slotted nut  $\geq 1\frac{1}{2}"$ ,  $\geq DN40$  - DIN 11851  
 hygienic fitting with tension flange DN32  
 hygienic fitting F40 with compression nut  
 Hygienic flange connection  $\geq DN50$  DIN11864-2  
 Hygienic fittings  $\geq DN40$  - DIN11864-1-A

**Seal material**  
 no media contact